

CLAIMS

What is claimed is:

1. A connector comprising:
a housing;
5 one or more interface passages formed in the housing, each of the interface passages having an outer perimeter, wherein at least one portion of the outer perimeter is spaced in or spaced out from at least one adjacent portion of the outer perimeter;
one or more connector passages formed in the housing,
10 each of the connector passages is connected to one of the interface passages; and
an electrical contact is seated in each of the one or more interface passages, is spaced from an opening to each of the interface passages, and extends in to the connector passage.
- 15 2. The connector as set forth in claim 1 wherein multiple portions of the outer perimeter are spaced in or spaced out from a portion of the outer perimeter adjacent each of the multiple portions.
3. The connector as set forth in claim 1 further comprising a
20 pair of the interface passages.
4. The connector as set forth in claim 3 wherein the outer perimeters of the pair of interface passages are substantially mirror images of each other.
25
5. The connector as set forth in claim 4 wherein an intermediary passage connects the pair of interface passages.
6. The connector as set forth in claim 3 wherein the outer
30 perimeters of the pair of interface passages are different each other.
7. The connector as set forth in claim 3 wherein an intermediary passage connects the pair of interface passages.

8. The connector as set forth in claim 3 wherein the outer perimeters of the pair of interface passages are substantially identical to each other.

5

9. The connector as set forth in claim 1 wherein each of the interface passages is sized to create a finger proof barrier.

10. The connector as set forth in claim 9 wherein the electrical contact is spaced in from an opening to the interface passage.

11. The connector as set forth in claim 1 wherein a portion of the interface passage spaced in from an opening to the interface passage has a configuration which differs from a configuration of the interface passage at the opening.

15

12. A method for making a connector system, the method comprising:

forming one or more interface passages in a housing, each of the interface passages having an outer perimeter, wherein at least one portion of the outer perimeter is spaced in or spaced out from at least one adjacent portion of the outer perimeter;

20

forming one or more connector passages in the housing, each of the connector passages is connected to one of the interface passages; and

25

providing an electrical contact in each of the one or more interface passages, the electrical contact is spaced from an opening to each of the interface passages and extends in to the connector passage.

13. The method as set forth in claim 12 wherein multiple portions of the outer perimeter are spaced in or spaced out from a portion of the outer perimeter adjacent each of the multiple portions.

30

14. The method as set forth in claim 12 wherein forming one or more interface passages further comprising forming a pair of the interface passages.
- 5 15. The method as set forth in claim 14 wherein the outer perimeters of the pair of interface passages are substantially mirror images of each other.
- 10 16. The method as set forth in claim 15 wherein an intermediary passage connects the pair of interface passages.
17. The method as set forth in claim 14 wherein the outer perimeters of the pair of interface passages are different each other.
- 15 18. The method as set forth in claim 14 wherein an intermediary passage connects the pair of interface passages.
19. The method as set forth in claim 14 wherein the outer perimeters of the pair of interface passages are substantially identical to each other.
- 20 20. The method as set forth in claim 12 wherein each of the interface passages is sized to create a finger proof barrier.
- 25 21. The method as set forth in claim 20 wherein providing an electrical contact further comprising spacing the electrical contact in from an opening to the interface passage.
- 30 22. The method as set forth in claim 12 wherein forming one or more interface passages further comprises forming a portion of the interface passage spaced in from an opening to the interface passage to have a configuration which differs from a configuration of the interface passage at the opening.